

IN THE CLAIMS:

a1

But G1

1. (Twice Amended). A purified, isolated and cloned DNA or amino acid sequence encoding a polypeptide required for the synthesis of antibiotic TA [or a shorter polypeptide portion of said polypeptide] , said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

a2

But G3

3. (Twice Amended). A purified, isolated and cloned DNA or amino acid sequence consisting of a [DNA] sequence encoding a polypeptide required for post modification of antibiotic TA [or a shorter polypeptide portion of said polypeptide] said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

a3

But G3

5. (Amended) A purified, isolated and cloned DNA or amino acid sequence consisting of a [DNA] sequence encoding a gene product involved in a regulation of the biosynthesis of antibiotic TA said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

a4

But G7

7. (Twice Amended) A purified, isolated and cloned DNA sequence consisting of a DNA sequence as set forth in SEQ ID NO: [1 and] 2.